ABSTRACT OF THE DISCLOSURE

A heat transfer device having a heat source for collecting waste heat from a heat-generating system, the heat transfer device having fins in which the shape of the sides of the fins is preferably circular according to the general expression $\left(x-\frac{1}{\gamma}\right)^2+\left(y-\frac{\rho}{\gamma}\right)^2=\frac{1}{\gamma^2}$, where $\gamma=\frac{h}{k}$, h is the heat transfer coefficient between the fin and the surrounding fluid, k is the thermal conductivity of the fin material, $\rho=\frac{q_o}{k\theta_o}$, q_o is the heat flow through the fin semi-base per unit depth and θ_0 is the difference between the temperatures of the heated surface and the surrounding fluid.